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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,030	12/07/2004	Takeshi Oouchida	1018.126101	2771
28075 759	90 03/15/2006		EXAMINER	
CROMPTON, SEAGER & TUFTE, LLC			LOPEZ, FRANK D	
1221 NICOLLET AVENUE SUITE 800			ART UNIT	PAPER NUMBER
	S, MN 55403-2420		3745	
			DATE MAILED: 03/15/2006	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/517,030	OOUCHIDA ET A	AL.		
		Examiner	Art Unit			
		F. Daniel Lopez	3745			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sl	neet with the correspondence a	ddress		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by simply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COM R 1.136(a). In no event, however i. eriod will apply and will expire SIX tatute, cause the application to be	MUNICATION. , may a reply be timely filed (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).			
Status						
1)	Responsive to communication(s) filed on _	·				
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5) 6) 7)	Claim(s) <u>1-18</u> is/are pending in the applica 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1-18</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction are	drawn from consideration				
Applicati	on Papers					
10)	The specification is objected to by the Exarche drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co. The oath or declaration is objected to by the	accepted or b) object the drawing(s) be held in rrection is required if the d	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 C			
Priority L	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	e of References Cited (PTO-892)	· — _	erview Summary (PTO-413)			
3) 🛛 Inform	e of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449 or PTO/Str. No(s)/Mail Date 12/7/04.	3/08) 5) No	per No(s)/Mail Date tice of Informal Patent Application (PT ner:	ГО-152)		

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Claim Rejections - 35 USC § 112

Claims 1-18 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1 line 2-5, claim 7 line 2-7, and claim 13 line 14, and claim 2, 8 and 14 line 3 "both sides" should be —each side—, since a bearing can not be on both sides at the same time. In claim 1 and 13 line 2-8 and claim 7 line 3-7 claim "a swash plate, which the first plunger abuts on,...a (second) swash plate, which the second plunger abuts on,...wherein formed in the cylinder block are first and second plunger holes that contain the first and second plungers, respectively" or a variation therein. This is confusing, since a slipper, connected to each of the plungers, abuts the swash plate, rather than the plunger itself.

Claims not specifically mentioned are indefinite, since they depend from one of the above claims.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, and 13-18, inasmuch as they are definite, are rejected under 35 U.S.C. § 102(b) as being anticipated by Hayashi et al. Hayashi et al discloses a hydrostatic transmission with a combined thrust and radial bearing (6, 16) and a radial bearing (7, 3) supporting a shaft (2) at each end of a cylinder block (4), with each group of combined thrust and radial bearing and a radial bearing being supported by a single (integrated) member (8; 1, 15, respectively). Claims 6 and 18 have product by process type limitations, which limitation are defined by the resulting structure. Second swash plate 8 appears to meet the limitations of claims 6 and 18.

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Claims 7-12 are rejected under 35 U.S.C. § 102(b) as anticipated by or, in the alternative, under 35 U.S.C. § 103 as obvious over Hayashi et al. Hayashi et al discloses all the elements of claims 7-12, as discussed in the above rejection, including that the drive system includes the hydrostatic transmission connected between an engine and a drive unit for a vehicle (e.g. column 10 line 62-65); that the hydrostatic transmission does not allow power from the engine to be disconnected from the drive unit (e.g. column 17 line 59-67); and that the drive unit is a device which inputs turning force from the second swash plate of the second hydraulic system and outputs rotation in a direction identical or reverse of to that of the second swash plate; but does not disclose that there is a device for transmitting or shutting down power to the shaft.

Drive systems for vehicles include clutches between an engine and a transmission, allowing power to be transmitted to or shutting off power through the transmission, to the drive unit. Therefore, inherently, the drive system of Hayashi et al would include a clutch between an engine and a transmission, allowing power to be transmitted to or shutting off power through the transmission, to the drive unit; since the hydrostatic transmission can not do this. If not, it would have been obvious at the time the invention was made to one having ordinary skill in the art to include a clutch between the engine and the hydrostatic transmission of Hayashi et al, allowing power to be transmitted to or shutting off power to the transmission; as a matter of engineering expediency. Since the clutch allows or stops power to the transmission, it allows or stops power to the shaft.

Claims 13-15, 17 and 18, inasmuch as they are definite, are rejected under 35 U.S.C. § 102(b) as being anticipated by Japan 2002-31209. Claim 13 claims a "means for supporting the shaft on both sides of the cylinder block" is not considered a proper 112 6th paragraph, means plus function limitation, since the portion "on both sides of the cylinder block" is a limitation to a specific element. Note that even if the limitation of claim 13 is considered a proper 112 6th paragraph, means plus function limitation, claim 14 line 1-2 "said means includes a bearing" is not a proper 112 6th paragraph, means

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plus function limitation. Japan 2002-31209 discloses a bearing (16, 41) supporting a shaft (15) at each end of a cylinder block (25).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dan Lopez whose telephone number is 571-272-4821. The examiner can normally be reached on Monday-Thursday from 6:15 AM -3:45 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Look, can be reached on 571-272-4820. The fax number for this group is 571-273-8300. Any inquiry of a general nature should be directed to the Help Desk, whose telephone number is 1-800-PTO-9199.

F. Daniel Lopez

Primary Examiner Art Unit 3745

March 13, 2006